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Classical physics, the description of physics that existed before the theory of relativity and quantum mechanics, describes many aspects of nature at an ordinary (macroscopic) scale, while quantum mechanics explains the aspects of nature at small (atomic and subatomic) scales, for which classical mechanics is insufficient. Most theories in classical physics can be derived from quantum mechanics as an approximation valid at large (macroscopic) scale.

Quantum mechanics - Wikipedia
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A unique legacy, these lecture notes of Schwinger's course held at the University of California at Los Angeles were carefully edited by his former collaborator Berthold-Georg Englert and constitute both a self-contained textbook on quantum mechanics and an indispensable source of reference on this fundamental subject by one of the foremost thinkers of twentieth century physics.

A Nobel Laureate relates the fascinating story of Einstein and relativity theory in well-illustrated, nontechnical terms, discussing the meaning of time, gravity and its effect on light, the curving of space-time, more.

The Austrian physicist Wolfgang Pauli (1900-1958) was often called the conscience of physics. He was famous for his sharp and critical mind which made him a central figure among the founders of quantum physics. He also was an outstanding philosopher, especially interested in finding a new conception of reality and of causality. A careful study of the original sources of the past culminated in his study of Kepler and of medieval symbolism, a concept that played a central role in his discussion with Carl Jung on what they called the psycho-physical problem. Pauli considered the sharp distinctions between knowledge and faith and between spirit and matter as dangerous. He thought they should complement each other in our comprehension of reality. Professor Laurikainen here for the first time describes Pauli's ideas in detail. His book is based on the large and as yet unpublished correspondence between Pauli and M. Fierz. Its careful analysis adds depth and clarity to the few publications by Pauli on philosophical problems and explains why Pauli grasped the meaning of atomic theory more deeply than even Niels Bohr himself. The book should interest both philosophers and physicists and should encourage further studies on Pauli the humanist and his contribution to our understanding of reality.

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'. Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title Quantities, Units and Symbols in Physical Chemistry. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

Renowned physicist and mathematician Freeman Dyson is famous for his work in quantum mechanics, nuclear weapons policy and bold visions for the future of humanity. In the 1940s, he was responsible for demonstrating the equivalence of the two formulations of quantum electrodynamics OCo Richard Feynman''s diagrammatic path integral formulation and the variational methods developed by Julian Schwinger and Sin-Itiro Tomonoga OCo showing the mathematical consistency of QED. This invaluable volume comprises the legendary lectures on quantum electrodynamics first given by Dyson at Cornell University in 1951. The late theorist Edwin Thompson Jaynes once remarked, OC For a generation of physicists they were the happy medium: clearer and better motivated than Feynman, and getting to the point faster than SchwingerOCO. This edition has been printed on the 60th anniversary of the Cornell lectures, and includes a foreword by science historian David Kaiser, as well as notes from Dyson''s lectures at the Les Houches Summer School of Theoretical Physics in 1954. The Les Houches lectures, described as a supplement to the original Cornell notes, provide a more detailed look at field theory, a careful and rigorous derivation of Fermi''s Golden Rule, and a masterful treatment of renormalization and Ward''s Identity. Future generations of physicists are bound to read these lectures with pleasure, benefiting from the lucid style that is so characteristic of Dyson''s exposition.

Written by world experts in the foundations of quantum mechanics and its applications to social science, this book shows how elementary quantum mechanical principles can be applied to decision-making paradoxes in psychology and used in modelling information in finance and economics. The book starts with a thorough overview of some of the salient differences between classical, statistical and quantum mechanics. It presents arguments on why quantum mechanics can be applied outside of physics and defines quantum social science. The issue of the existence of quantum probabilistic effects in psychology, economics and finance is addressed and basic questions and answers are provided. Aimed at researchers in economics and psychology, as well as physics, basic mathematical preliminaries and elementary concepts from quantum mechanics are defined in a self-contained way.

This is the first biography of Julian Schwinger, one of the great theoretical physicists of the twentieth century. A long-time colleague and collaborator of Richard Feynman, he was the joint winner with Feynman of the 1965 Nobel Prize for Physics for their work on quantum electrodynamics. However his contribution extended far beyond this, and his life and achievements are chronicled in this book.